



PRODUCT OVERVIEW:

The ARRIS FST1305 bridge modem is designed to upgrade the WAN interface of legacy gateways with fiber-like speeds. The modem can be mounted in various orientations and locations by either installation technicians or the customer. The FST1305 converts G.fast signals from either a coaxial cable or twisted pair phone line to Gigabit Ethernet for the gateway it supports. Alternatively, the FST1305 converts VDSL2 profile 35b received over twisted pair phone line to Gigabit Ethernet. The modem is managed via the ITU-T G.997.1 embedded operations channel in VDSL mode, and G.997.2 when in G.fast mode. It requires no input or interaction by the user beyond connecting the cables and understanding the LED indications of the front panel. The modem is protected with K.21 level lightning protection.

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Features:

- Small, robust design supports Wide Area Network (WAN) connection with fiber-like speeds
- ITU-T G.9700 & 9701 (G.fast) support
- ITU-T G.993.2 Annex Q VDSL2 profile 35b support
- Input via either Coax (G.fast) or Twisted Pair Phone line (G.fast & VDSL) connections
- Output via Gigabit Ethernet (IEEE 802.3) RJ-45
- Wall mountable or desktop placement
- Diagnostic LEDs for Power status, Ethernet link status, and Broadband link status
- K.21 lightning protection

GENERAL SPECIFICATIONS

Interfaces

WAN	Single line 106MHz G.fast, RJ-11 or Coax/ F-Connector Single line VDSL2, RJ-11
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LAN	One-port 10/100/1000 Ethernet, RJ-45
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G.fast

G.fast	ITU-T G.9700 & G.9701; 106MHz band plan ITU-T G.994.2 Handshake ITU-T G.977.2 Management Modulation: DMT 2048, 51.75KHz spacing Time Domain Duplexing Trellis Code + Reed Solomon FEC Vectoring Transmission Rate > 900Mbps @ physical layer
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VDSL2

VDSL	ITU-T G.993.2 Annex Q (VDSL2 35b) G.993.5 Vectoring G.997.1 (2012) VDSL2 physical layer OAM G.998.4 G.INP
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Embedded Firmware and Access

Device Management	SSH, WebUI, CLI (Telnet)
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Regulatory Compliance

North America	UL 60950, CUL, CSA FCC Part 15 Class B Subparts B, C and E, FCC Part 68, CS-03
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Environmental Specifications

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)

Physical Specifications

Power Consumption	3.8W typical
Unit Dimensions	125mm High x 125mm Deep x 30mm Wide 4.9in. High x 4.9in. Deep x 1.2in. Wide
Unit Weight	0.19 kg 0.42 lbs

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